



CERTIFICATE OF ANALYSIS

Collagenase HA, Catalog # 001-1000
For Research Use Only

Product: Aseptically dispensed mixture of purified Class 1 (60%) and Class 2 (40%) Collagenase from *C. histolyticum*

Lot # 241170713	SPECIFICATION	RESULT
Appearance	White lyophilized cake	White lyophilized cake
Specific Wunsch Activity ¹	> 2.80 Units/mg	4.76 Units/mg
Total Wunsch Activity	> 1900 Units/bottle	2,229 Units/bottle
Endotoxin EU/mg protein ²	< 10.0 EU/mg	4.83 EU/mg
Total Collagen Degrading Activity ³	Report Only	32,173,303 Units/bottle
Total Protein ⁴	Report Only	468.4 mg/bottle
Trypsin Like Activity (BAEE Unactivated) ⁵	Report Only	0.0008 U/mg
Clostripain (BAEE Activated) ⁵	Report Only	0.1313 U/mg

STORAGE: < -20°C

DATE OF MANUFACTURE: 13 July 2017

EXPIRY DATE: July 2019

Signature:

Andrew Breite, Director of Quality Assurance

31 July 2017

¹ Wunsch E, Heidrich H-G. Zur quantitativen bestimmung der kollagenase. *Hoppe-Seyler's Zeitschrift Physiologische Chemie* 333 (1963);149-151

² Charles River Endosafe[®] PTS Endotoxin Assay

³ McCarthy RC, et. al. Development and Characterization of a Collagen Degradation Assay to Assess Purified Collagenase Used in Islet Isolation. *Transplantation Proceedings* 40 (2008); 339-342

⁴ Based on absorbance at 280 nm using an extinction coefficient of $\epsilon=1.41$

⁵ Mitchell WM, Harrington WF. Clostripain. *Methods In Enzymology* (1970) 19;635-642

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